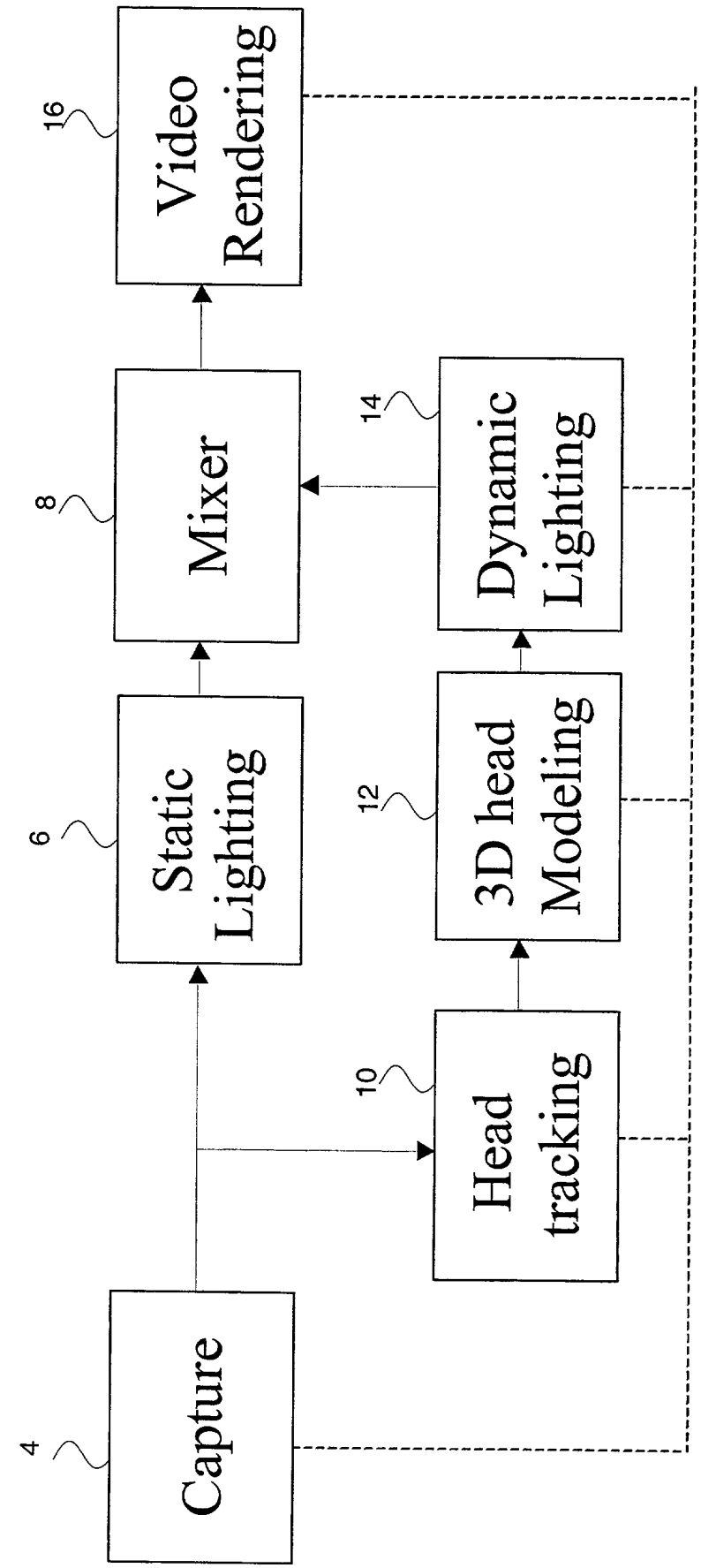

2
4
Capture
6
Static Lighting
8
Mixer
10
Head tracking
12
3D head Modeling
14
Dynamic Lighting
16
Video Rendering

FIG. 1

20020103 EP 1262907 A1

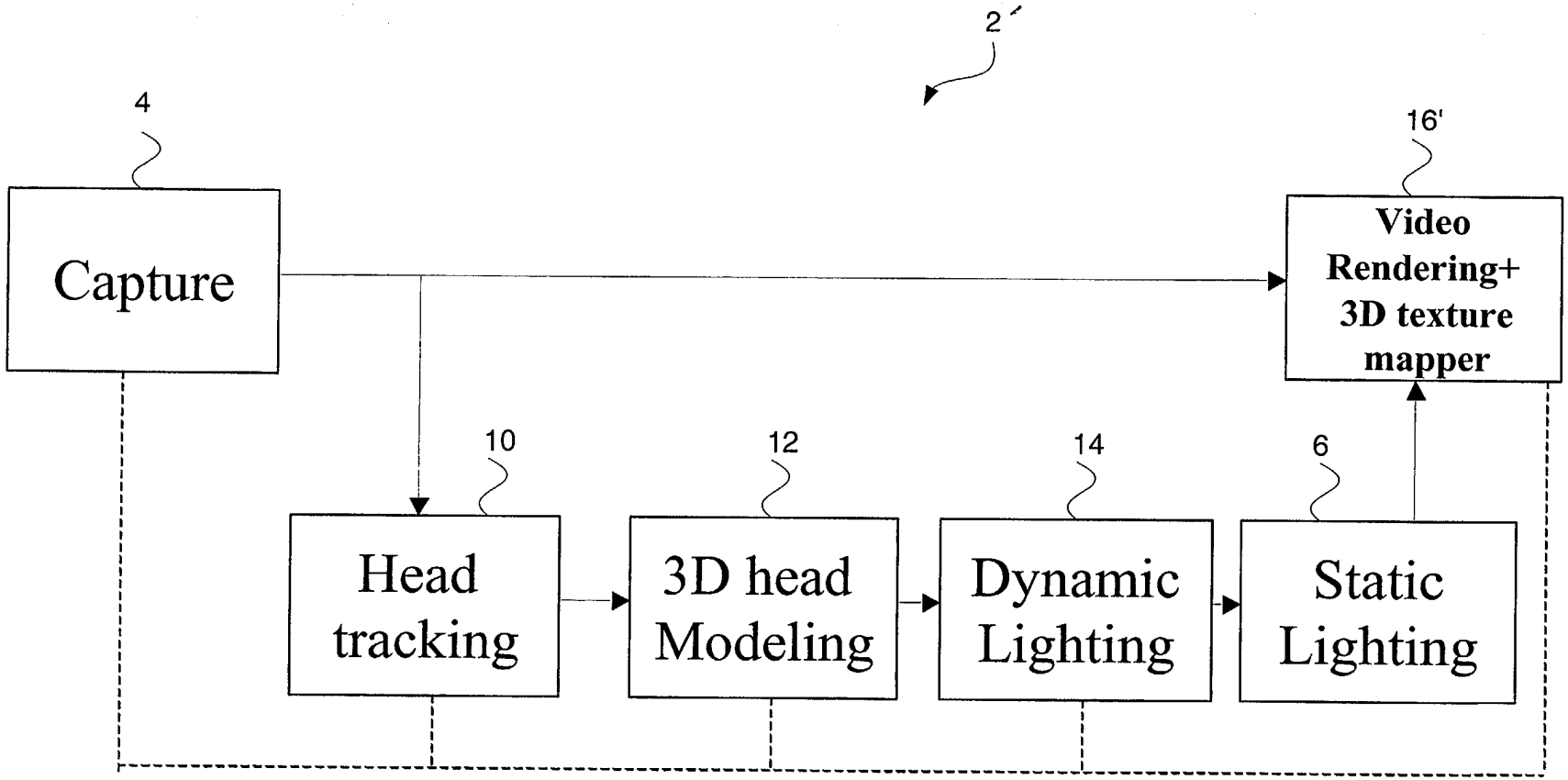


FIG. 2

DOCKET NO. 2001-0045
2 OF 11

20320 "EP02800"

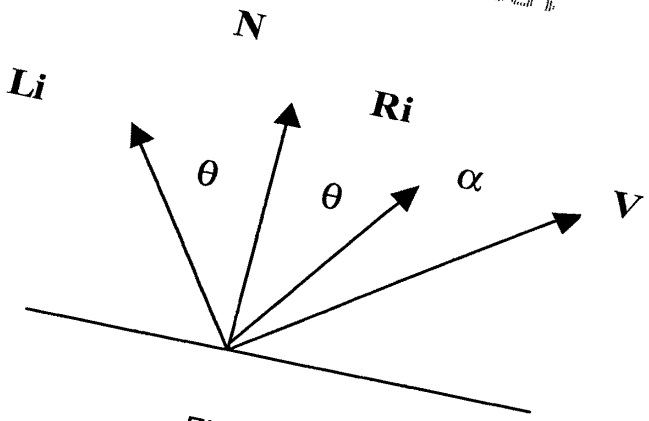


FIG. 3

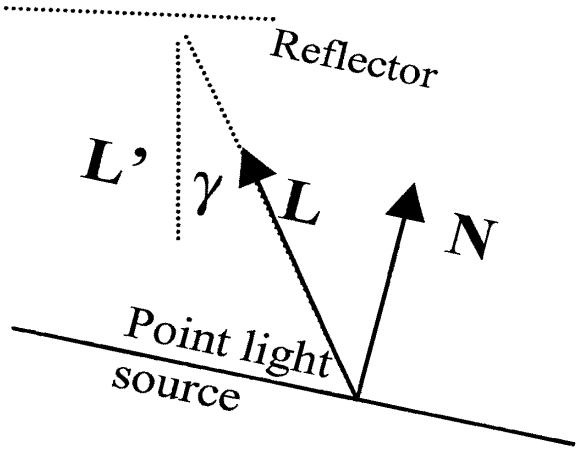
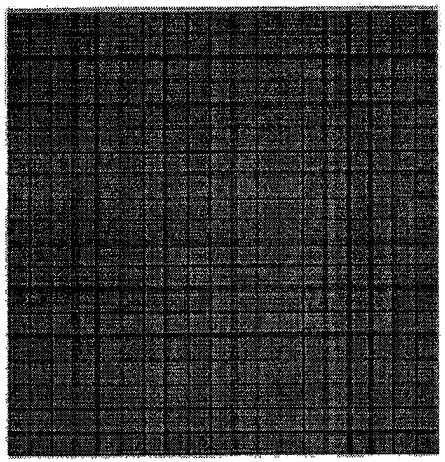


FIG. 4

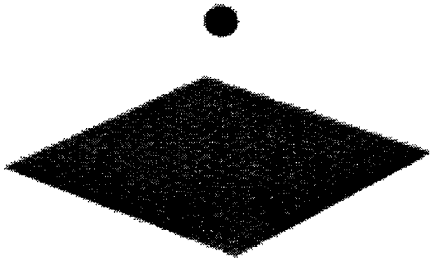
Source: Nov. 2001, US

20527D "E90Z5001



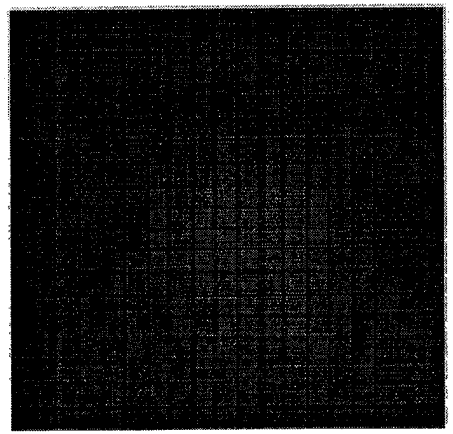
ka =0.7, kd =0.1, ks =0.3, m =1

FIG. 5B



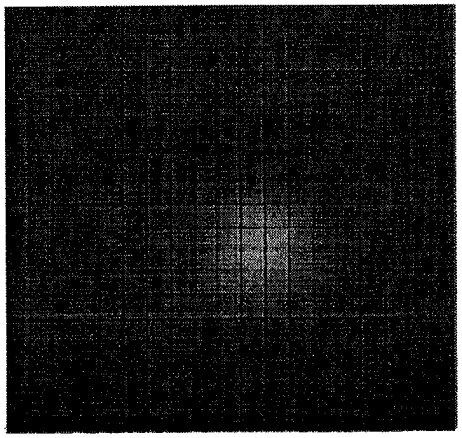
c1 = 0.3, c2 = 0.3, c3=0.3, and Odλ = Osλ=1

FIG. 5A



ka=0.5 kd=0.3 ks = 0.4, m=40

FIG. 5C



ka =0.6 kd =0.1 ks = 0.2 m =6.

FIG. 5D

20320 E90250DT

FIG. 6A

FIG. 6B

FIG. 6C

FIG. 6D

FIG. 6E

FIG. 6F

DOCKET NO. 2001-0045
5 OF 11

20020701.030205001

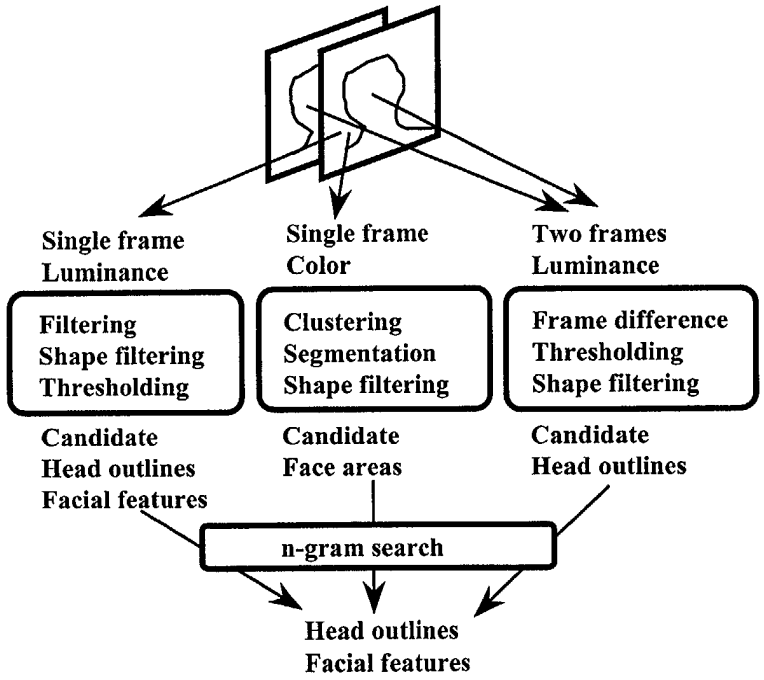


FIG. 7

Docket No. 2001-0001
6 of 11

FIG. 8A

FIG. 8B

Docket No. 2001-0043
7 of 11

20527D "E90ZSOOT

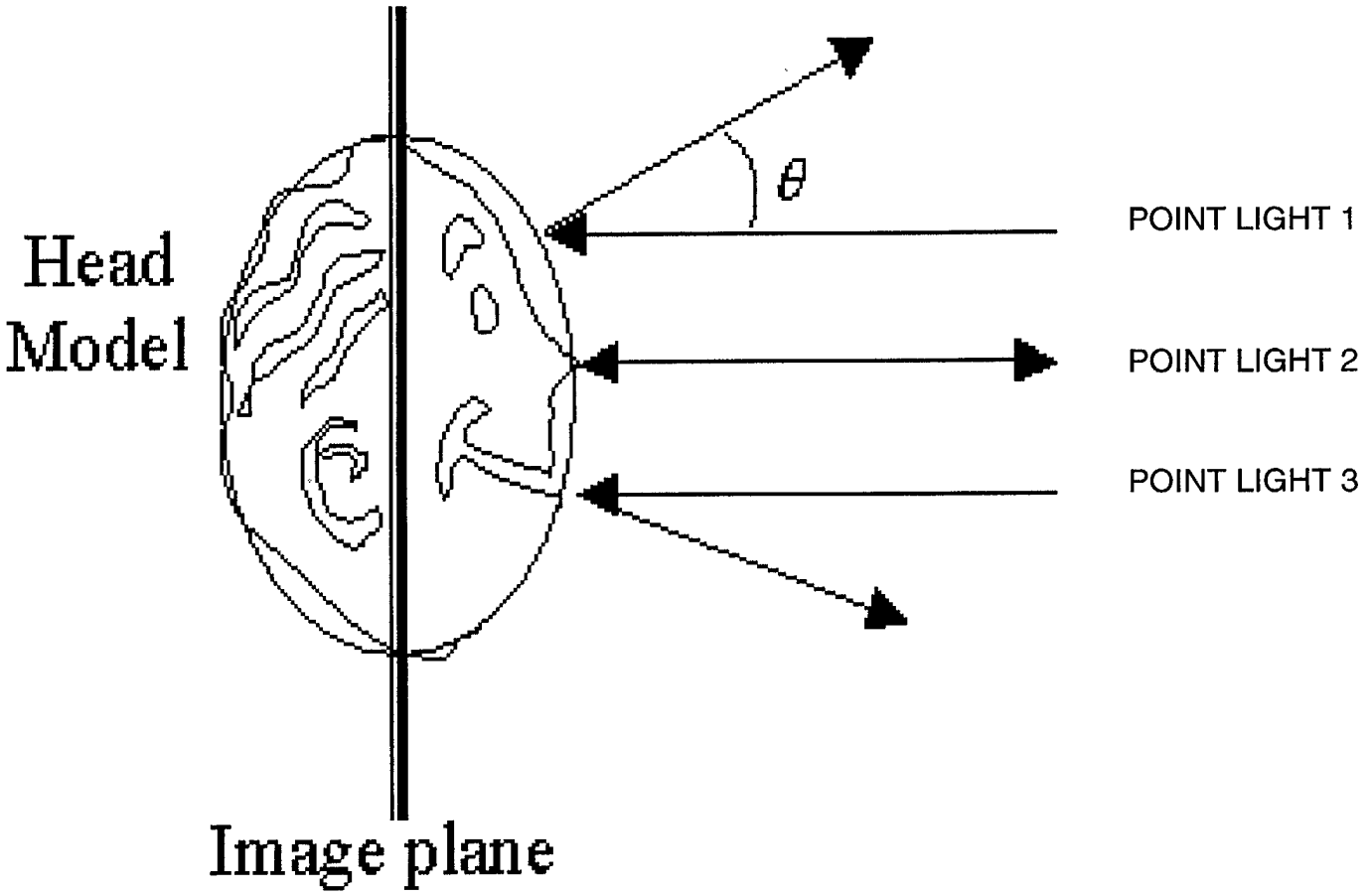


FIG. 9

Docket No. 2001-0045
8 of 11

20020163 .0120S0

FIG. 10A

FIG. 10B

FIG. 10C

DOCKET NO. 2001-0076
9 OF 11

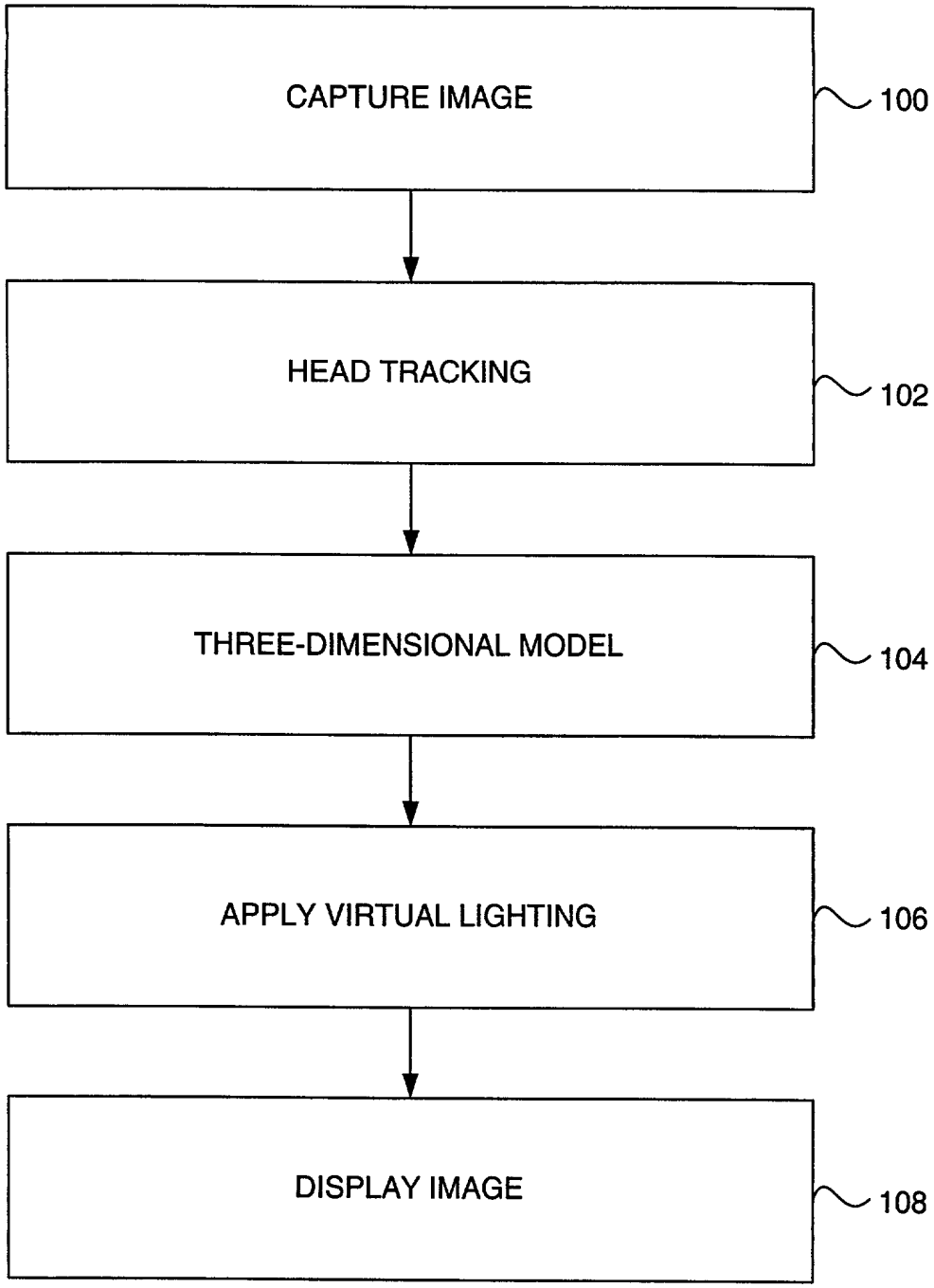

CAPTURE IMAGE
100
HEAD TRACKING
102
THREE-DIMENSIONAL MODEL
104
APPLY VIRTUAL LIGHTING
106
DISPLAY IMAGE
108

FIG. 11

20SBTD"E90Z90DY

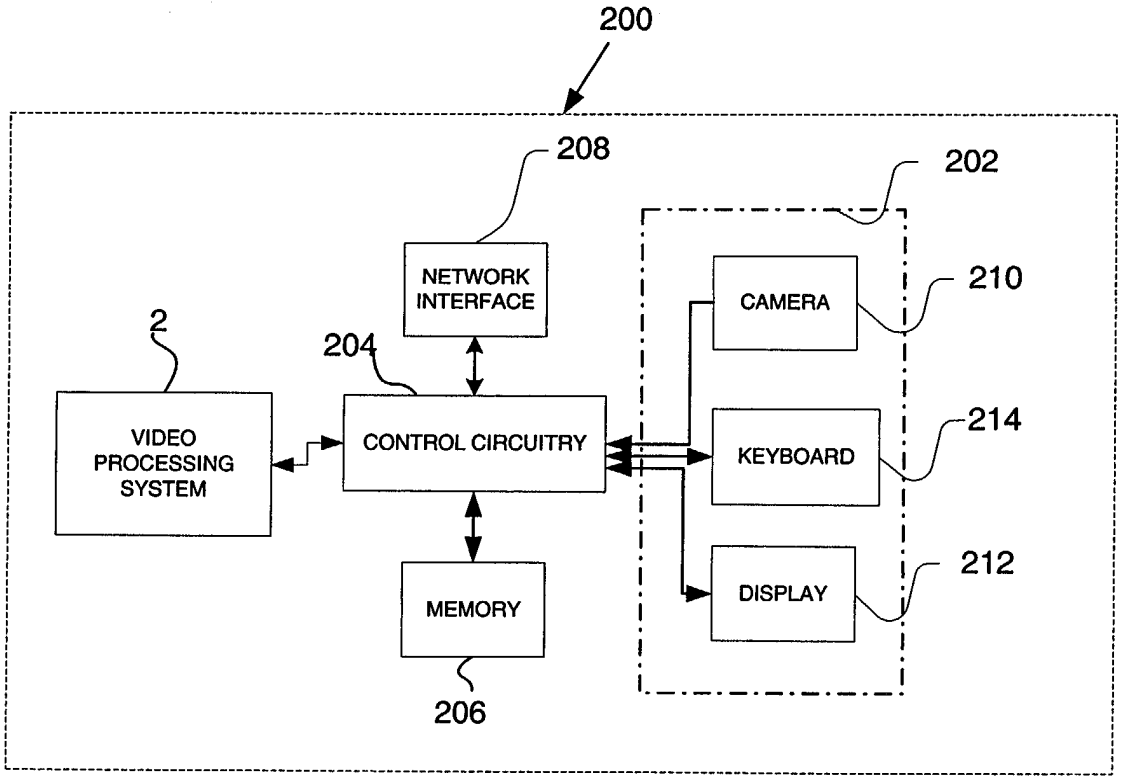


FIG. 12

Docket No. 2001-0045
11 of 11